



# Status of the Future Atomic Masses & NUBASE Evaluations

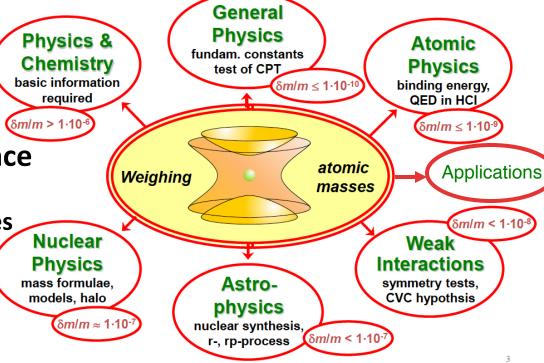




# Introduction

- Binding energies
  - ✓ mass models
  - ✓ shell structure
- Correlations
  - pairing
  - ✓ p-n
- Reaction & decay phase space
  - Q values
  - decay & reaction probabilities
- The limits of existence
  - ✓ drip lines
  - specific configurations and topologies

## E=mc<sup>2</sup>



### Who is involved ...

#### AME & NuBase collaboration: work is spread among 4 groups









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- ✓ first collaborative meeting in Beijing sponsored by the Nuclear Theory group of Peking University (Prof. F. Xu)
- bulletin with the minutes will be issued shortly
- ✓ ENSDF, XUNDL & NSR are of vital importance

# Next tables ...

- ☐ The next AME & NuBase evaluations will be completed by December 2016 AME2016 & NuBase2016
- ☐ It will be an electronic publication (CPC) only a limited number of hard copies will be only sent to the major NP facilities
- Dissemination